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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,579	02/28/2002	Bernd Lamberts	SJO919980105US1	9017
7590	08/26/2004		EXAMINER	
DAVID W LYNCH CRAWFORD MAUNU PLLC 1270 NORTHLAND DRIVE SUITE 390 MENDOTA HEIGHTS, MN 55120			COLON, ROCIO	
			ART UNIT	PAPER NUMBER
			2651	
			DATE MAILED: 08/26/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/086,579	LAMBERTS, BERND	
	<b>Examiner</b> Rocio Colon	<b>Art Unit</b> 2651	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 28 February 2002.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1,2,4-6,8,9 and 11-13 is/are rejected.
- 7) Claim(s) 3,7,10 and 14 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 28 February 2002 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All
  - b) Some \*
  - c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1-2, 4-6, 8-9, 11-13 are rejected under 35 U.S.C. 102(a) as being anticipated by Ohinata et al. (USPN 6,198,583).

Regarding claim 1, Ohinata et al. disclose a method for reducing the servo position error signal non-linearity during self-servo writing, comprising:

measuring the write width for all heads (column 5, lines 51-53 and column 6, lines 28-30); and

adjusting a write current for each head in a disk drive toward a predetermined level (column 3, lines 21-22).

Regarding claim 2, Ohinata et al. disclose determining a mean track propagation width for the disk drive, the predetermined level establishing the a mean track propagation (column 6, lines 43-51).

Regarding claim 4, Ohinata et al. disclose the step of verifying the optimal performance is achieved using the adjusted write currents (column 6, lines 20-23).

Regarding claim 5, Ohinata et al. disclose the verifying further comprises repeating the measuring and adjusting until a track propagation for the disk drive meets a predetermined criteria (column 3, lines 30-31).

Regarding claim 6, Ohinata et al. disclose the predetermined criteria comprises a predetermined minimum threshold (column 5, lines 25-26, the minimum track width is TA).

Regarding claim 8 Ohinata et al. disclose a disk drive, comprising:  
a plurality of data storage media mounted for simultaneous rotation about an axis (column 1, line 18);

an actuator for moving each of a plurality of heads relative to an associated data storage media for reading and writing data to the associated data storage media (column 7, lines 65-67 and column 8, lines 1-3), and

a disk controller for writing a data pattern to respective data storage media utilizing each of the plurality of heads, wherein the disk controller measures the write width for each of the plurality of heads and adjusts a write current for each of the plurality of heads toward a predetermined level (column 3, lines 21-22).

Apparatus claims 9 and 11-13 are drawn to the apparatus corresponding to the method of using same as claimed in claims 2 and 4-7. Therefore apparatus claims 9 and 11-13 correspond to method claims 2 and 4-7, and are rejected for the same reasons of anticipation as used above.

***Allowable Subject Matter***

3. Claims 3, 7, 10 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The following is a statement of reasons for the indication of allowable subject matter:  
Regarding claims 3 and 10, the prior art of record taken alone or in combination fail to

disclose adjusting the write current for each head by applying a higher current to heads smaller than the mean head width and a lower write current to heads wider than the mean head width.

Regarding claims 7 and 14, the prior art of record taken alone or in combination fail to disclose the predetermined criteria comprises a minimum variance in track propagation width.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rocio Colon whose telephone number is (703) 305-3947. The examiner can normally be reached on Mon-Thu 8:00a.m.-6:30p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (703)305-4040. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
RCV  
August 23, 2004

SINH TRAN  
PRIMARY EXAMINER